

**IMPLEMENTING ACCESS CONTROL LISTS USING A BALANCED HASH TABLE OF
ACCESS CONTROL LIST BINARY COMPARISON TREES**

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ABSTRACT OF THE DISCLOSURE

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A method and system for implementing Access Control Lists (ACLs) using a Balanced Hash Table of ACL Binary Comparison Trees (ABCTs), where the Balanced Hash Table of ABCTs encodes the replaced ACL. In one embodiment, the method includes but is not limited to receiving at least one packet, and disposing of the received at least one packet in response to a walk of a Balanced Hash Table of ABCTs, where the Balanced Hash Table of ABCTs encodes an Access Control List. In another embodiment, the method further includes converting the Access Control List to the Balanced Hash Table of ABCTs, the Balanced Hash Table of ABCTs encoding the Access Control List. In one embodiment, the system includes means for receiving at least one packet, and means for disposing of the received at least one packet in response to a walk of a Balanced Hash Table of ABCTs, where the Balanced Hash Table of ABCTs encodes an Access Control List. In another embodiment, the system further includes means for converting the Access Control List to the Balanced Hash Table of ABCTs, where the Balanced Hash Table of ABCTs encodes the Access Control List.

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